## Supplemental Table 1: Infrascanner diagnostic performance for subgroups

			Negative Predictive	Positive Predictive
Subgroup	Sensitivity	Specificity	Value	Value
Overall	81% (13/16)	68% (209/308)	99% (221/224)	11% (13/120)
Overa	54%, 96%	63%, 73%	96%, 100%	6%, 18%
Age	3 1 70, 33 70	3370, 7370	3370, 13370	370, 1370
Quartile 1	100% (5/5)	68% (50/74)	100% (55/55)	16% (5/31)
(0 to 4.97 Years)	48%, 100%	56%, 78%	94%, 100%	5%, 34%
Quartile 2	50% (1/2)	67% (54/81)	98% (57/58)	4% (1/28)
(4.98 to 9.53 Years)	1%, 99%	55%, 77%	91%, 100%	0%, 18%
Quartile 3	71% (5/7)	75% (55/73)	97% (56/58)	18% (5/28)
(9.54 to 13.77	29%, 96%	64%, 85%	88%, 100%	6%, 37%
Years)	, , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,	,
Quartile 4	100% (2/2)	63% (50/80)	100% (53/53)	6% (2/33)
(> 13.77 Years)	16%, 100%	51%, 73% <sup>′</sup>	93%, 100%	1%,`20%
p-value	0.34	0.39	0.32	0.20
Race				
Asian	-	53% (9/17)	100% (10/10)	-
		28%, 77%	69%, 100% <sup>°</sup>	
Black /African	100% (2/2)	70% (81/115)	100% (81/81)	5% (2/39)
American	16%, 100%	61%, 79%	96%, 100%	1%, 17%
White	89% (8/9)	66% (97/146)	99% (105/106)	13% (8/62)
	52%, 100%	58%, 74%	95%, 100%	6%, 24%
Other	100% (3/3)	72% (18/25)	100% (20/20)	30% (3/10)
	29%, 100%	51%, 88%	83%, 100%	7%, 65%
p-value	0.74	0.49	0.79	0.10
Skin Color				
Black/Olive/Brown	67% (4/6)	67% (114/171)	98% (116/118)	6% (4/65)
	22%, 96%	59%, 74%	94%, 100%	2%, 15%
Light/White	90% (9/10)	69% (95/137)	99% (105/106)	16% (9/55)
	56%, 100%	61%, 77%	95%, 100%	8%, 29%
p-value	0.25	0.62	0.63	0.07
Hair Color				
Black/Brown	77% (10/13)	67% (148/221)	98% (151/154)	11% (10/88)
	46%, 95%	60%, 73%	94%, 100%	6%, 20%
Blond/Red/Scant	100% (2/2)	70% (61/87)	100.0% (70/70)	6% (2/31)
	16%, 100%	59%, 79%	95%, 100%	1%, 21%
p-value	0.45	0.59	0.24	0.43
Site				
Children's Hospital	86% (6/7)	70% (121/173)	99% (125/126)	10% (6/60)
of Philadelphia	42%, 100%	63%, 77%	96%, 100%	4%, 21%
Boston Children's	75% (3/4)	66% (37/56)	98% (41/42)	13% (3/24)
Hospital	19%, 99%	52%, 78%	87%, 100%	3%, 32%
Children's Hospital	80% (4/5)	65% (51/79)	98% (55/56)	11% (4/36)
Colorado	28%, 99%	53%, 75%	90%, 100%	3%, 26%
p-value	0.91	0.66	0.70	0.94

			Negative	Positive
			Predictive	Predictive
Subgroup	Sensitivity	Specificity	Value	Value
Number of Lobes				
Measured				
3	78% (7/9)	69% (90/130)	98% (95/97)	13% (7/52)
	40%, 97%	61%, 77%	93%, 100%	6%, 26%
4	86% (6/7)	67% (119/178)	99% (126/127)	9% (6/68)
	42%, 100%	59%, 74%	96%, 100%	3%, 18%
p-value	0.69	0.66	0.41	0.42
Device Mode				
Independent	85% (11/13)	71% (145/205)	99% (155/157)	14% (11/76)
	55%, 98%	64%, 77%	95%, 100%	7%, 24%
Guided	67% (2/3)	62% (64/103)	99% (66/67)	5% (2/44)
	9%, 99%	52%, 72%	92%, 100%	1%, 15%
Chi-Square p-value	0.47	0.13	0.90	0.09
<b>Hematoma Location</b>				
Epidural	67% (6/9)	-	-	-
	30%, 93%			
Subdural	100% (4/4)	-	-	-
	40%, 100%			
Intracerebral	100% (3/3)	-	-	-
	29%, 100%			
p-value	0.24	-	-	-
Hematoma volume				
>3.5-13.0 mL	88% (7/8)	-	-	-
	47%, 100%			
>13.0 mL	75% (6/8)	-	-	-
	35%, 97%			
p-value	0.52	-	-	-
Scalp Hematoma				
Yes	80% (4/5)	66% (60/91)	99% (68/69)	11% (4/38)
	28%, 99%	55%, 76% <sup>°</sup>	92%, 100%	3%, 25%
No	82% (9/11)	69% (149/217)	99% (153/155)	11% (9/82)
	48%, 98%	62%, 75% ´	95%, 100% <sup>´</sup>	5%, 20%
p-value	0.93	0.64	0.92	0.94

Results presented as proportion (numerator/denominator), lower, upper 95% confidence interval. Sensitivity, negative predictive value, and positive predictive value are based on evaluable intracranial hematomas within the detection limit of the device. Specificity is based on absence of any hematoma regardless of depth and size to prevent penalizing successful detection of smaller and deeper hematomas. A two-sided p-value from a chi-square test comparing the estimates between subgroups is reported. Only sensitivity is reported for hematoma location and volume, since these factors are not applicable to patients without hematomas.